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ABSTRACT OF THE DISCLOSURE

After forming an insulating film on an underlying layer, a resist pattern is formed on the insulating film. insulating film is etched by using the resist pattern as a mask, thereby forming an insulating film pattern. Without the resist pattern, exposed portions of the removing and the insulating film pattern underlying layer subjected to a plasma treatment, cleaning, a heat treatment or the like, so that a deposition grown during the formation of the insulating film pattern can be removed. Thereafter, by using at least the the underlying layer is etched insulating film pattern as a mask. As a result, even when a strict pattern rule is employed, pattern defects can be prevented from being caused in etching a multi-layer film.